

CLAIMS

Please amend the claims as follows:

Claims 1-5. (Cancelled)

6. (Currently Amended) A method for processing shared sub-packets at a subscriber station, the method comprising:

demodulating a first control channel comprising an identity of at least one subscriber station and a number of control channels;

demodulating a second control channel comprising information enabling a subscriber station to demodulate a traffic channel if the identity is identical to an identity of the subscriber station; and

demodulating the traffic channel in accordance with said enabling information;

wherein said demodulating a second control channel further comprises determining a position of the identity within the received first control channel, selecting a second control channel in accordance with said determined position, and demodulating said selected second control channel.

7. (Original) The method as claimed in claim 6, wherein said demodulating a first control channel comprising identity of a subscriber station comprises:

demodulating a pre-determined control channel.

8. (Cancelled)

9. (Currently Amended) The method as claimed in claim [[8]] 6, wherein said selecting a second control channel in accordance with said determined position comprises:

establishing a code encoding a second control channel in accordance with a relationship between said determined position and the code; and

demodulate the second control channel encoded by said established code.

10. (Original) The method as claimed in claim 6, wherein said demodulating the traffic channel in accordance with said enabling information comprises:

determining a size of traffic channel unit and a number of code channels in accordance with the enabling information if the traffic channel unit is code multiplexed; and
demodulate the traffic channel unit.

11. (Original) The method as claimed in claim 6, wherein said demodulating the traffic channel in accordance with said acquired enabling information comprises:

determining a number of sub-divisions of traffic channel unit and a starting sub-division in accordance with the enabling information if the traffic channel unit is time multiplexed; and
demodulate the traffic channel unit.

12. (Currently Amended) A method for processing shared sub-packets in a communication system, the method comprising:

generating a first control channel comprising an identity of at least one subscriber station and a number of second control channels;

generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel;

transmitting the control channels:

demodulating the received first control channel;

determining an identity of at least one subscriber station and a number of second control channels in accordance with said demodulated first control channel;

demodulating a second control channel comprising information enabling a subscriber station to demodulate a traffic channel if the identity is identical to an identity of the subscriber station; and

demodulating the traffic channel in accordance with said enabling information;

wherein said demodulating a second control channel further comprises determining a position of the identity within the received first control channel, selecting a second control channel in accordance with said determined position, and demodulating said selected second control channel.

13. (Original) The method as claimed in claim 12, wherein said generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel comprises:

generating at least one second control channel comprising a number of code channels encoding a unit of the traffic channel.

14. (Original) The method as claimed in claim 12, wherein said generating at least one second control channel comprising information enabling the at least one subscriber station to demodulate a traffic channel comprises:

generating at least one second control channel comprising a number of sub-divisions and a starting sub-division of a unit of the traffic channel.

15. (Original) The method as claimed in claim 12, wherein said transmitting the control channels comprises:

transmitting the first control channel at a power required by a subscriber station with the worst forward link quality metric for which the first control channel is intended.

16. (Original) The method as claimed in claim 15, further comprising:

transmitting the at least one second control channel at a power required by the at least one subscriber station for which the at least one second control channel is intended.

17. (Original) The method as claimed in claim 12, wherein said demodulating the received first control channel comprises:

demodulating a pre-determined control channel.

18. (Cancelled)

19. (Currently Amended) The method as claimed in claim ~~[[18]]~~ 12, wherein said selecting a second control channel in accordance with said determined position comprises:

establishing a code encoding a second control channel in accordance with a relationship between said determined position and the code; and

demodulate the second control channel encoded by said established code.

20. (Original) The method as claimed in claim 12, wherein said demodulating the traffic channel in accordance with said enabling information comprises:

determining a size of traffic channel unit and a number of code channels in accordance with the enabling information if the traffic channel unit is code multiplexed; and

demodulate the traffic channel unit.

21. (Original) The method as claimed in claim 12, wherein said demodulating the traffic channel in accordance with said acquired enabling information comprises:

determining a number of sub-divisions of traffic channel unit and a starting sub-division in accordance with the enabling information if the traffic channel unit is time multiplexed; and

demodulate the traffic channel unit.